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PATENT COOPERATION TREATY REC G

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

			's file reference	FOR FURTHER ACT	ION See Notification	on of Transmittal of International xamination Report (Form PCT/IPEA/416)
240-204-WO					Preliminary E	
International application No.			ition No.	International filing date (da	y/month/year)	Priority date (day/month/year)
PCT/DK 03/00639 29.09.2003				29.09.2003		30.09.2002
International Patent Classification (IPC) or both national classification and IPC				IPC		
	D471/		·			
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	Applicant NEUROSEARCH A/S et al.					
INEC	711002					
			U I was Basing and asse	minetian report has been	orenared by this In	ternational Preliminary Examining
1.	This i	nterna ritv a	ational preliminary exa- nd is transmitted to the	applicant according to A	ticle 36.	terrational Frommary Examining
	7.00	,				
				of Postal and including this	oover sheet	
2.	This I	REPC	PRT consists of a total	of 5 sheets, including this	cover sneet.	
		This	report is also accompa	nied by ANNEXES, i.e. st	neets of the descrip	otion, claims and/or drawings which have
		h	amanded and are the	basis for this report and/on 607 of the Administrativ	r sheets containing	i rectifications made before this Authority
}		•	·		e manachona anac	i die 1 01).
1	Thes	e ann	exes consist of a total	of sheets.		
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3.	This	repor	t contains indications r	elating to the following ite	ms:	
	1	\boxtimes	Basis of the opinion			
	II		Priority			
	Ш	\boxtimes	Non-establishment of	f opinion with regard to no	velty, inventive ste	p and industrial applicability
	IV		Lack of unity of inver	ntion		
	٧	\boxtimes	Reasoned statement citations and explana	t under Rule 66.2(a)(ii) wit ations supporting such sta	h regard to novelty, tement	, inventive step or industrial applicability;
1	V١		Certain documents o	ited		
	VII ☐ Certain defects in the international application					
	VIII			on the international appli	cation	
Da	te of sul	omissi	on of the demand		Date of completion of	of this report
22.03.2004				13.10.2004		
Name and malling address of the International preliminary examining authority:			ional	Authorized Officer	entrata Petentary.	
——— Furopean Patent Office					* M	
	<i>6</i>)	D-	80298 Munich el. +49 89 2399 - 0 Tx: 52	3656 epmu d	Ousset, J-B	
-	<u> </u>		ax: +49 89 2399 - 4465	•	Telephone No. +49	89 2399-8271

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International application No.

PCT/DK 03/00639

1.	Basis	of the	repo	rt
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages							
	1-33	3	as originally filed					
Claims, Numbers								
	1-33	3	as originally filed					
 With regard to the language, all the elements marked above were available or furnished to this A language in which the international application was filed, unless otherwise indicated under this ite 								
	The	These elements were available or furnished to this Authority in the following language: , which is:						
		the language of publi	nslation furnished for the purposes of the international search (under Rule 23.1(b)). cation of the international application (under Rule 48.3(b)). nslation furnished for the purposes of international preliminary examination (under 8).					
3.	With inte	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:						
		contained in the inter	national application in written form.					
		filed together with the international application in computer readable form.						
		furnished subsequen	tly to this Authority in written form.					
	tly to this Authority in computer readable form.							
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
4.	The	amendments have re	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.;					
		the drawings,	sheets:					
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this					
6.	Add	litional observations, i	f necessary:					

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II.	l. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
:	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:					
☐ the entire international application,						
⊠ claims Nos. 24,33						
because:						
the said international application, or the said claims Nos. 33 relate to the following subject matter whose not require an international preliminary examination (specify):					s Nos. 33 relate to the following subject matter which ination (specify):	
see separate sheet						
the description, claims or drawings (indicate particular elements below) or said claims Nos. 24 are so unclear that no meaningful opinion could be formed (specify):						
		see separate sheet				
		the claims, or said claims Nos. could be formed.	are so	inadequatel	y supported by the description that no meaningful opinion	
		no international search report h	nas be	en establishe	ed for the said claims Nos.	
2	 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide a or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 				nnot be carried out due to the failure of the nucleotide and/ dard provided for in Annex C of the Administrative	
		the written form has not been f	urnish	ed or does n	ot comply with the Standard.	
		the computer readable form ha	as not	been furnish	ed or does not comply with the Standard.	
V	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1	. St	tatement				
N		ovelty (N)	Yes: No:	Claims Claims	1-23,25-32	
	In	ventive step (IS)	Yes: No:	Claims Claims	1-23,25-32	
	ln	ndustrial applicability (IA)	Yes: No:	Claims Claims	1-23,25-32	
	2 (Stations and avalanations				

see separate sheet

SECTION III

- Claim 33 relates to the treatment of human and/or animal bodies. According to Rule 67(1)(iv) an examination is not required for such a claim.
- Claim 24 does not relate to the therapeutic use but to a mechanism. This renders the claim unclear.

SECTION V

- Relevant prior art is represented by: 3).
 - D1: WO 01 92259 A (SANOFI SYNTHELABO ;LECLERC ODILE (FR); GALLI FREDERIC (FR); LOCHEA) 6 December 2001 (2001-12-06)
 - D2: WO 01 92260 A (SANOFI SYNTHELABO ;LECLERC ODILE (FR); GALLET THIERRY (FR); GALLI) 6 December 2001 (2001-12-06)
 - D3: WO 00 34279 A (SANOFI SYNTHELABO ;JEUNESSE JEAN (FR); NEDELEC ALAIN (FR); EVEN LU) 15 June 2000 (2000-06-15)
 - D4: WO 01 55150 A (SANOFI SYNTHELABO ;LECLERC ODILE (FR); NEDELEC ALAIN (FR); GALLI F) 2 August 2001 (2001-08-02)
 - D5: EP-A-1 219 622 (PFIZER PROD INC) 3 July 2002 (2002-07-03)
- The claimed matter is novel vis-à-vis D1-D5, since none of these documents discloses compounds containing a five-membered ring as core moiety having three heteroatoms.
- D2 represents the closest prior art, because it differs from the content of the current claims by the fact that a carbon atom of the thiazolyl moiety of D2 has been replaced by a nitrogen atom.

The problem underlying the current application appears to be the provision of further polycyclic compounds useful to treat CNS disorders.

The proposed solution is represented by the compounds of claim 1.

The data on page 33 of the description show that this problem has been credibly solved.

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From D2 alone or in combination with any other documents the skilled person would not find in these document the hint, which would let him know that the replacement of a carbon atom in the five-membered ring by a nitrogen atom would lead to compounds which retain the CNS activity.

An inventive step cannot however be acknowledged on the whole claimed scope. If the mere replacement of an atom by another one leads to an unexpected effect (here the retention of the activity), it has not been made credible that for the same skilled person it is obvious that the numerous claimed variations lead all to compounds solving the given problem.

Moreover, it is emphasized that the wording of the claims contains unlimited terms, which therefore lead to an unlimited "number of compounds, which cannot inherently possess the claimed activity.

Inventive step is not acknowledged.

6). For the assessment of the present claim 33 on the question whether it is industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.